PAWISHRAJHEN A R | 4th YEAR B.TECH ARTIFICIAL INTELLIGENCE

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EDUCATIONAL QUALIFICATION

Program	Institution	%/CGPA	Year
B.Tech	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	8.18/10	2026
XII (CBSE)	Senthil Public School, Salem	68%	2022
X (CBSE)	Senthil Public School, Salem	66.8%	2020

SKILLS

- Programming Languages: Python, C, Java, HTML/CSS , JavaScript ,SQL
- Frameworks: OpenCV, MediaPipe, YOLO, Keras, TensorFlow, PyTorch, Flask, Node.js, FastAPI, Streamlit, Tkinter, DQN, REINFORCE, PPO, Q-Learning, Vosk (Speech Recognition)
- Developer Tools: Git, Docker, Google Cloud Platform (GCP), PyCharm, Jupyter Notebook, Anaconda, Firebase, MySQL, Supabase
- Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Web3.js, Seaborn, Gym (OpenAI), Transformers (Hugging Face), XGBoost, RAPIDS (cuDF, cuML, cuGraph), Dask
- Other Tech Skills: Natural Language Processing (NLP), Reinforcement Learning, Blockchain Development, Model Optimization, Prompt Engineering, Agentic AI, GPU-Accelerated Computing, Retrieval-Augmented Generation (RAG)

PROJECTS

❖ Multimodal Emotion Classification (Machine Learning + Full Stack: Flask, HTML, CSS, JS)   *(March 2025 – April 2025)*

- Developed a Flask-based web app for multimodal emotion classification using text, audio, and video inputs
- Integrated LLaMA via Ollama and used transformers, torch, and scikit-learn for real-time emotion inference
- Processed multimedia data using librosa, pydub, ffmpeg-python, and moviepy for accurate feature extraction

❖ MaliciousURLNet (Deep Learning, Flask, PyTorch, Llama3.2)   *(March 2025 – April 2025)*

- Developed CNN-BiLSTM URL analyzer with LLaMA AI for real-time, context-aware threat mitigation.
- Enhanced detection via instant assessment, robust categorization, and AI-driven security recommendations.
- Designed intuitive web UI with model selection, visual indicators, and PDF reports for enterprise scanning.

❖ Skin Disease Diagnosis (Deep Learning + Full Stack: Flask, TensorFlow, HTML, CSS, JS,)   *(Feb 2025 – March 2025)*

- Developed a Flask-based web app for skin disease classification using a pre-trained TensorFlow model (HAM10000 dataset) with image upload and instant prediction
- Integrated LLaMA3.2 via Ollama to provide GenAI-driven explanations and personalized recommendations alongside model predictions
- Enabled multi-language support (English, Spanish, French, Hindi, Tamil, Chinese) for global accessibility and user engagement

❖ Multi-Model Shadow Removal System (Deep Learning + Streamlit: U-Net, Latent Diffusion, DeepFill)*(March 2025 – May 2025)*

- Achieved 98% image quality for multi-stage shadow removal on the ISTD dataset using U-Net, Latent Diffusion, and DeepFill models in a deep learning pipeline
- Built a Streamlit web app with an optimized inference pipeline, reducing processing time per image from 5s to 2.8s for efficient deployment and user experience
- Integrated real-time visualization and image comparison features, validated on 1000+ images with diverse and complex shadow scenarios for robust performance

❖ Leveraging Machine Learning For Monitoring And Predicting Oceanic Environmental Changes   *(Jan 2025 – April 2025)*

- Developed Advance hybrid forecasting model (STL/ETS/Fourier) for ocean pH predictions with 98.8% accuracy in Ocean ph Predictions
- Built visualization system for 13+ ocean parameters using matplotlib/seaborn for pattern analysis
- Created automated validation framework comparing 4 forecasting models(ARIMA, PCA, STL, Hybrid), reducing analysis time 75%

ACHEIVEMENTS & EXTRA CURRICULAR ACTIVITIES

- Finalist at RPC 2024 (Top 12 out of 1000+ teams, Edulateral Foundation) and Hackheist 2024 (Sri Ramakrishna College, Coimbatore).
- Certification: Machine Learning by Andrew Ng (Coursera)
- Certification: Programming in Java (NPTEL)
- Oracle Certified: OCI Foundation Associate – 2024
- Oracle Certified: OCI Data Foundation Associate – 2024
- Intel Unnati: AI + Internet of Things Workshop
- Udemy: Full-Stack Web Development Bootcamp & Java Bootcamp
- Languages Known: English , Tamil , Hindi